

Wake Co.

Doc ID#	
DIN	
Date	9/25/12
Fac/Permit Co ID #	92-10

Carmen Johnson

CP&L

Carolina Power & Light Company

Shearon Harris Energy & Environmental Center
Route 1, Box 327
New Hill, North Carolina 27562



FEB 1 1988

Serial No.: ESS-88-39

Mr. Michael L. Babuin, Hydrogeologist
Solid and Hazardous Waste Management Branch
Division of Health Services
P. O. Box 2091
Raleigh, N.C. 27602-2091

RE: Shearon Harris Nuclear Power Plant Monitoring Well Data

Dear Mr. Babuin:

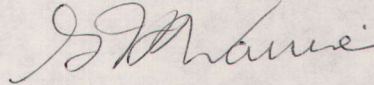
In accordance with Landfill Permit No. 92-10 for the Shearon Harris Nuclear Power Plant sanitary landfill, enclosed please find the results of the second set of well monitoring data for 1987. The sampling was performed on October 14. Wells #1, #2, and #3 are located near Landfill Area 3, which is the only active area. Wells #4 and #5 are near Landfill Area 2, which is not yet developed. They were sampled to provide background data as mentioned in the letter transmitting the first set of data, dated September 14, 1987. As you will note, the laboratory inadvertently failed to perform floride analyses on the samples. Because it was felt that fluoride was not a major concern, the wells were not resampled. However, if you believe that it is necessary, please notify us, and we will resample the wells to analyze for fluoride. Fluoride analyses will be included in the next submittal.

As B. S. Crawford discussed with you by telephone, high levels of iron and manganese were found in each of the five wells. It is believed high background concentrations are responsible for the levels found in the wells. Also, elevated levels of total dissolved solids, sulfates, and specific conductance were found in Well #5. It is not known why these parameters were elevated in this background well, however, we are investigating possible causes.

In accordance with a recent letter to Mr. Charles Ross of CP&L from Mr. Thomas R. Will of your office concerning the Monitoring Guidance Document for Solid Waste Facilities, future analyses will include nitrate and chemical oxygen demand. These analyses are not included in this submittal because the wells were sampled before the letter was received. Also, future annual sampling is scheduled to be performed in May of each year. If your office would like to know the exact date that sampling will be performed, we will be able to provide this information as the date approaches.

If you have any questions or comments concerning this matter, please contact J. M. McDowell at (919) 836-6920.

Yours very truly,

A handwritten signature in cursive script, appearing to read "G. H. Warriner".

G. H. Warriner
Manager
Environmental Services

TLP/ekb (87-3TLP)

Enclosure

92-10

1987

Enclosure to ESS-88-39

SHEARON HARRIS NUCLEAR POWER PLANTSanitary Landfill Groundwater Monitoring
October 1987Water AnalysisParameter (Units)Well 1Well 2Well 3Well 4Well 5

Parameter (Units)	Well 1	Well 2	Well 3	Well 4	Well 5
pH (units)	8.3	7.4	8.3	8.3	8.0
Chloride (mg/l)	27.	17.	28.	9.8	12.
Specific Conductance (umho/cm)	473.	232.	450.	450.	1370
Total Organic Carbon (mg/l)	3.3	2.2	5.8	1.7	2.4
Biochemical Oxygen Demand (mg/l)	6.8	13.	9.7	9.2	<5
Total Dissolved Solids (mg/l)	300	140	270	240	1000
Sulfate as SO ₄ (mg/l)	1.9	3.1	11.	1.0	640
Total Mercury (ug/l)	<0.1	<0.1	<0.1	<0.1	<0.1
Total Copper (ug/l)	62.	18.	12.	17.	41.
Total Iron (mg/l)	2.5	9.5	0.24	0.56	0.39
Total Arsenic (mg/l)	0.0030	0.012	0.0030	0.0020	0.0030
Total Chromium (ug/l)	11.	17.	11.	7.4	13.
Total Cadmium (ug/l)	0.82	0.18	0.62	0.51	0.26
Total Lead (ug/l)	46.	21.	11.	12.	9.8
Total Manganese (mg/l)	0.37	1.2	0.28	0.37	0.05
Total Selenium (mg/l)	<0.001	<0.001	0.0010	<0.001	<0.001
Total Zinc (mg/l)	0.05	0.02	<0.02	<0.02	0.02
Fluoride (mg/l)	?	?	?	?	?
Total Barium (mg/l)	<0.2	<0.2	<0.2	<0.2	<0.2
Total Silver (mg/l)	<0.01	<0.01	<0.01	<0.01	<0.01
Total Organic Halide (mg/l)	<0.01	<0.01	<0.01	0.02	0.012

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